

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D119-796 REV. E OR EARLIER AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D119-796 REV. 3 OR EARLIER

REF. TCCA STC: SH14-45
REF. FAA STC: SR03504NY
REF. EASA STC: 10052022
REF. DGCA INDIA LOA: 07-09/2011-AED
REF. ANAC STC: 2015S07-16
REF. CAAP LOA: C-16-0221
REF. CAAC VSTC: VSTC0757
REF. RUSSIAN TC: CT316-A119

UNDER REVIEW

URF 17-555

PURPOSE:

The purpose of this Dart Service Instruction (DSI) is to provide customers with instructions to add the DSI 9774-011 Grounding Clamp Installation Kit on the D119-796-201/-203/-241/-251 Aft Crosstubes.

The components of the DSI 9774-011 Kit provide two additional grounding attachment points for the OEM grounding straps.

The D119-796-201/-203/-241 Crosstube Installation at CHG 005 and later and the D119-796-251 Crosstube Installation at CHG 004 and later will be supplied from Dart with the DSI 9774-011 Grounding Clamp Installation Kit installed.

PROCEDURE:

- 1) In order to gain access, it may be necessary to remove the aft crosstube from the helicopter in accordance with Chapter 32.1 of ICA-D119-796.
 - 2) Locate D5515-1 Grounding Clamp as shown in Figure 1 of this service instruction and mark location of the clamp on the crosstube.
 - 3) Remove the crosstube finish (paint and primer) down to bare metal using a non abrasive paint stripper only in the area where the D5515-1 Grounding Clamp will be installed. Touch up the affected area with electrically conductive chemical film material (Alodine 600) per MIL-C-5541.
 - 4) Install the D5515-1 Grounding Clamp per Figure 2 of this service instruction and orient it so that it provides clear access to attach the grounding strap and does not interfere with adjacent components. Torque the MS21042-3 Nut to 12-15 in-lb.
 - 5) Carry out a resistance check between the D5515-1 Grounding Clamp and any unpainted section of the crosstube in accordance with AC43-13-1B Chapter 11. (example: check for resistance between crosstube cuff and D5515-1 Grounding Clamp. Adjust the D5515-1 Grounding Clamp if necessary to achieve a max resistance of 3 milliohms (mΩ).
 - 6) Completely seal all edges of the D5515-1 Grounding Clamp that meet with the crosstube using MIL-S-8802 Class B2 sealant to prevent moisture intrusion under the D5515-1 Grounding Clamp.
 - 7) Touch up the finish on the crosstube and the D5515-1 Grounding Clamp as required per Item 5.3 of ICA-D119-796.
 - 8) If the aft crosstube was removed re-install in accordance with Chapter 32.2 of ICA-D119-796.
 - 9) Fasten the OEM grounding straps to the D5515-1 Grounding Clamps on both sides of the aft crosstube using OEM hardware.
- Note:** It is acceptable to enlarge the $\varnothing 0.256$ (6.5mm) hole on the grounding clamp up to $\varnothing 0.355$ (9mm) if necessary. Touch up the affected area with electrically conductive chemical film material (Alodine 600) per MIL-C-5541.
- 10) Update aircraft log book to indicate installation of DSI 9774-011 Grounding Clamp Installation Kit.

WEIGHT AND BALANCE:

There is a negligible weight and balance change associated with the installation of this kit.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 17.02.10
CERT. NO.: SH14-45
ISSUE NO.: 1

APPROVED

A	NEW ISSUE (REF. PAR 17-580)		ML	17.02.10
REV.	DESCRIPTION		BY	DATE
DESIGN	ML	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	ML			
CHECKED	AJS	DRAWING NO.	REV. A	
MFG. APPR.	N/A	DSI 9774	SHEET 1 OF 2	
APPROVED	HS	TITLE	SCALE	
DE APPR.	DS	GROUNDING CLAMP INSTALL	NTS	
DATE	17.02.10	COPYRIGHT © 2017 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		

PARTS LIST:

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9774-011	GROUNDING CLAMP INSTALLATION KIT
2	D5515-1	GROUNDING CLAMP
2	MS21042-3	NUT
2	MS27039-1-08	SCREW
4	NAS1149D0332J	WASHER

UNDER REVIEW

URF 17-555

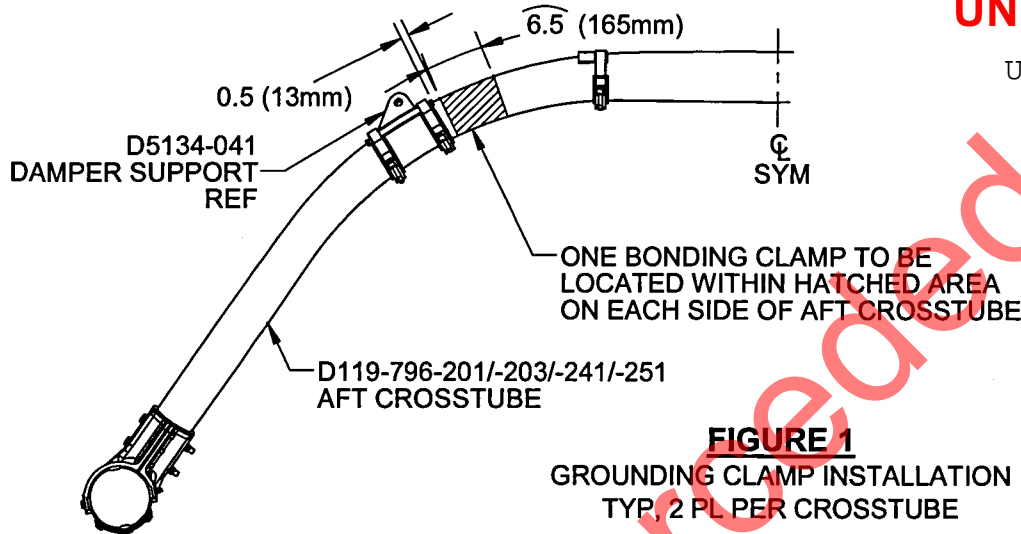


FIGURE 1
GROUNDING CLAMP INSTALLATION
TYP, 2 PL PER CROSSTUBE

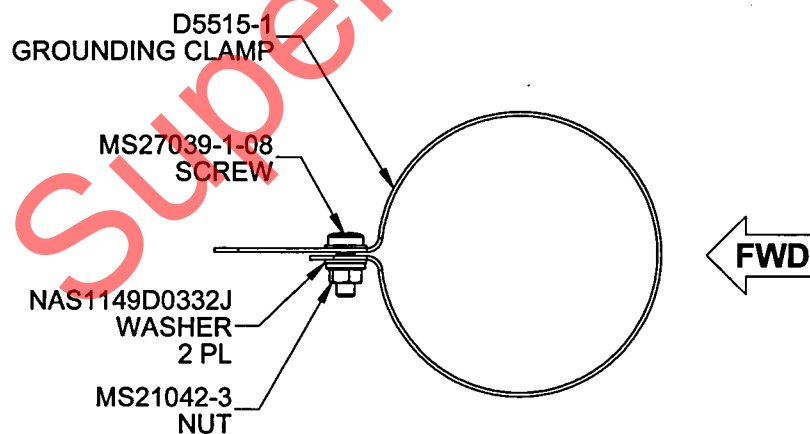


FIGURE 2
HARDWARE STACKUP
TYP, 2 PL PER CROSSTUBE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 17.02.10
CERT. NO.: SH14-45
ISSUE NO.: 1

APPROVED

DESIGN	ML	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	ML		
CHECKED	AJS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9774	SHEET 2 OF 2
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	GROUNDING CLAMP INSTALL	NTS
DATE	17.02.10	COPYRIGHT © 2017 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	